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STUDENT CONFERENCE ON ENVIRONMENT AND SUMMARIES OF THE OTHER REGIONAL CONFERENCES HELD AT OAKLAND, CALIFORNIA ON DECEMBER 30, 1969

Federal Water Pollution Control Administration
San Francisco, California

30 December 1969

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CLEAN WATER

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STUDENT CONFERENCE

ON

ENVIRONMENT

AND SUMMARIES OF THE OTHER REGIONAL CONFERENCES

DECEMBER 30, 1969 OAKLAND, CALIFORNIA

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U.S. DEPARTMENT OF THE INTERIOR
FEDERAL WATER POLLUTION CONTROL ADMINISTRATION
PACIFIC SOUTHWEST REGION

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On December 30, 1969, Oakland, California was the site of one of nine student conferences held across the nation to discuss pollution in the environment. Hosted by the Federal Water Pollution Control Administration, students gathered from five western states to offer their ideas on curbing the pollution crisis and to elect representatives who would comprise a Student Council on Pollution and the Environment (SCOPE). On the following pages are the names of the SCOPE representatives, the resolutions which were adopted by the entire conference for presentation to the Secretary of the Interior, and a list of conference attendees. Also attached is an appendix of similar information from the other regional meeting.

The December-30th gathering represented only a small step for man in his ever-increasing battle to save his environment. We appreciate the concern you have shown by your interest in the conference. The continuing efforts of all of us are required to restore the harmony between man and his environment.

Paul De Falco, Jr.
Director, Pacific Southwest Region

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GENERAL DECLARATION OF THE CONFERENCE

1. We recognize the National SCOPE Panel and the backup regional panels as our designated representatives and petitioners to the Federal government. They have full authority to speak on our behalf, as long as we find them useful. We urge President Nixon, Secretary Hickel and all other responsible officials to so recognize this group, and make it possible for this group to act effectively by appropriate support and funding.

2. We recognize that increased public awareness is a chief short-term goal of the student environment movement. The National Teach-in on April 22, 1970, is already established as a focus of the student information effort.

3. We urge President Nixon to declare April 22 a National Holiday to be called National Environment Awareness Day. Students should be charged with responsibility to organize programs for public education on that day.

4. We urge that Federal funds be made available for local expenses on that day and for National coordination, including distribution of publications and films, etc. These funds should not be simply diverted from other environmental programs.

5. We urge our National panel to work closely with and to utilize the facilities of the National Teach-in headquarters in coordinating and promoting all activities of the movement. We urge our regional panel to work closely with and use facilities of the Student Environmental Confederation.

We propose the following:

1) That there is a world population crisis and the U. S. Government must recognize this fact and work towards actively solving this problem.

2) That the crisis is National and International in scope.

3) That the U. S. Government should attack on all fronts doing all that is possible to encourage people to have small families at the same time taking whatever steps are necessary to bring the population growth rate to zero.

4) That domestically the U. S. government:

   a) should make sex education mandatory in all public school systems.
   b) should provide free contraceptive services to all Americans on demand stressing sterilization.
   c) should legalize abortion and provide free abortion services.
   d) should encourage the establishment of the 2-child family as an American norm.
   e) should promote massive research into contraceptive methods both for male and female.
   f) should subsidize adoption and grant tax exemptions for adopted children.
   g) should phase out tax exemption for natural children.
   h) should study reform on economic systems to accord with new population policies and the new demographic patterns established.
   i) should stop promoting panacea programs which are aimed at alleviating the effects of the problem by technology and not at solving the problem itself.
   j) should select from the many population control measures which have been proposed to enable the U. S. to reach zero population growth by 1975. Zero population growth is assumed here to be a philosophy of natural balance the impact of which must not be racially or ethnically determined.
   k) should expand all government monetary involvement in domestic population programs which will subscribe to the above points.

5) In the event that these proposals fail to bring about the desired reduction in population growth rate to zero by 1975, the government should select stronger measures and insist on the establishment of an average family size of 2 children.

6) Internationally, U. S. foreign policy in population control must reflect our domestic policies.

Every American has the right "to live in, and enjoy, an environment free from improvident destruction or pollution; and the right to the ownership, use and enjoyment of property, free from improvident invasion or impairment." (American Civil Liberties Union argument concerning offshore drilling in the Santa Barbara Channel)

Pollution of water is defined as any impairment of its quality that adversly and unreasonably affects the subsequent beneficial use of such water, as defined by the California State Water Quality Control Board. The interpretation of this definition must be made by individuals other than those who use any waters for the discharge of wastes, chemical or solid. Thus recognizing the importance of the activities of water quality control boards to the welfare of the community, we assert that the interests of the entire community are best served by independent agencies without bias or self-interest in the matters discussed; we propose that representatives of special commercial interest not be appointed to policy-making bodies.

We request that the federal government follow suit of the California state practice prohibiting oil lessees in the Santa Barbara Channel from erecting new platforms, and their cessation in granting new leases. Current lessees should be compensated by either, returning the nominal installments that have already been paid for such leases, or granting drilling rights on inland sites, removed from the shoreline. We also request that standards for these drilling operations, already in progress, meet the standards required by the State of California. We favor the banning of all oil drilling in the federal and state tidelands until the Interior Department comes up with "methods the industry should follow in drilling, producing, and transporting oil that would remove the threat of pollution and other damage to the environment and ecological community."

We submit that water quality standards must be adopted to protect water resources. Stringent regulations regarding thermal pollution must be adopted. Incentives should be offered to power plants to move inland, so as to not usurp shoreline lands. Cooperative coastal community agencies should be formed that are capable of coping with natural and man-made disasters. Users of water bodies should be held responsible for all costs of acquisition, storage, transport and disposal of water in California.

Recycling of waste water and desalinization must be given priority over long distance water transport. In addition the California water plan must be abandoned as ecologically disastrous and economically and environmentally unsound. The water plan will dangerously jeopardize the ecology of the Sacramento River Delta and the San Francisco Bay. Further, water transport to Southern California will only increase population and agricultural growth, neither of which will benefit that area.

Protection of estuaries must be regarded as prime importance; we therefore request a halt to the development of any estuarian area, to prevent a situation similar to that now occuring in the Florida Everglades due to the development of airport facilities.

It is imperative that pipeline safety legislation be enacted to prevent such catastrophes , as that which has occured in the San Fernando Valley Aquifer , from occuring in the future. We propose that pipelines carrying sewage and for flood water control, be separate and not unified in one network.

We have been appraised of the fact that there is a possibility that the federal government will financially support, with $1½ million, a study to evaluate the effects of outfalls and sewage on the marine environment. It has been reported that the study will be conducted by the dischargers themselves. We strongly recommend that the study be conducted by objective observers, and that no new outfalls be constructed prior to the completion of the study.

Finally, sewage processing plants should be removed from the San Diego County salt marshes.

(This proposal was originally submitted by,

USC Student Institute on Human Population
and Environment

and

People's Response on a Better Environment
(PROBE)

and was prepared by Ora R. Citron
Director Southern California
Environmental Coalition. It was approved for inclusion with the final proposal of the Population Committee.)

COMMITTEE ON

PERSONAL COMMITMENT AND CULTURAL CHANGE

We believe that the solution of the environmental crisis lies with personal action, meaning severely altered life-styles resulting in a broad cultural change.

Criteria - Personal and immediately possible actions which basically rely on the one ecological, non-polluting source of energy we know of, namely, muscle power.

Two most important aspects:

1. Communicating.
2. Keeping informed

Be informed, about ecological matters.

Be vocal about waste and pollution.

The following list, somewhat repetitive from this morning should help answer the personal question - what can I do?

1. Do not drive a car (walk, car pools, bicycle).
2. Refuse to buy products in non-returnable, non-reusable containers.
3. Put bricks in toilet tanks to conserve water.
4. Use bio-degradable soaps.
5. Produce no more than two children; adopt children.
6. Recycle wastes, aluminum and aluminum cans, cardboard, mixed scrap metal; bundle newspapers.
7. Turn vacant lots and backyards into organic gardens.
8. Separate your garbage into organic and inorganic matter; use the organic waste for compost fertilizer for your garden; don't use dispose-all.
9. Don't use Shell pest strips or flea collars; they release a nerve gas.
10. Send "junk mail" back to the post office. Mark it "returned to sender" or "refused."
11. Conserve paper
12. Share a newspaper with a friend.
13. Use a shopping bag. Reuse paper bags.
14. Always think of a piece of paper as having two sides. Paper is trees!
15. Christmas and holidays - don't buy wrapping paper; use old newspaper instead; buy only live trees and plant them. Give gifts to nature.
16. Stop your personal over-consumption. If you don't need it, don't buy it. Money is the fuel of the machine of ecological destruction.
17. Keep informed. Register and vote. Write letters.
18. Don't buy products of non-domestic animals. Many wild species are vanishing.

19. Develop an ecological consciousness of your personal actions such as: washing, brushing, flushing. Would you rather be clean or have clean water to drink?
20. Grow your own fruits, vegetables, and herbs.
21. Support voluntary control, legalized abortions. and incentive programs for family limitation.
22. Request a free tree from the City, for your yard (Berkeley).
23. Make your own bread.
24. Make music; don't buy it.
25. Rely on yourself and your friends instead of our unecological system.

Our one proposal is this humble one to an individual we call the U. S. Government.

During the severe stress of World War I and II the government provided information and suggestions how individuals could consume less and consume more wisely. We propose that there is a present crisis, the environmental crisis, and that our government begin to help us to change, and hence, survive.

COMMITTEE ON
REVOLUTIONARY ALTERNATIVES

Our original proposal was a call for the abolition of the government and its industrial clients. The statement that was read this morning went into the philosophical reasoning behind our proposal. Those of us who originally supported the proposal knew that it would go unheeded so all of us who worked up the original proposal felt we could be of more help in other workshops. As a result the wording of our proposal has been reworked, but one intention is relatively unchanged.

Earlier this morning Mr. Klein told us that he gave the Mr. Clean Water Award to Edgar Spear, the president of U. S. Steel. Mr. Klein reasoned that he felt that he was tactically correct in making the award because he approved of a little something that Mr. Spear did and because he wanted to use Mr. Spear as an example. Mr. Klein then told us that he did not hesitate to slap the wrist of U. S. Steel when he disapproved of its actions. We are here to be used as examples just like Mr. Spear was, but if we ever threatened the interests of Mr. Klein and his industrial clients we would probably get our heads clubbed along with the wrist slapping.

This brings us to the question of how we should relate to this conference. Some of us feel that we should use this meeting as a lever to move the government out of the way so that we can begin with meaningful change. Others of us feel that the government is irrelevant and there is no use in sending delegates to sit at the feet of a Hickel. I, personally, endorse the latter opinion.

All of us feel that the ultimate answer lies with ourselves. We know that we have no right to speak for anyone but ourselves, but we shall each commit ourselves individually to the survival of the biosphere. Each of us shall consider our lives as guerrilla theatre. We shall act in an educationally provocative way. Many others who sympathize with our goals will join us. Then the fate of the despoilers of the biosphere will be like that of the nail in the ancient Japanese proverb which says that the nail which sticks up will soon be hammered down.

We propose that we refuse to take part in the industrial system which we see as the source of our destructive life styles. We understand that our economic system is the most successful scheme ever devised by man - economically speaking. On the other hand, we know that all living creatures are having a hell of a time surviving the operation of this system.

We know that the United States which constitutes a minute percentage of the world population consumes over fifty percent of the non-renewable resources of the world. We understand the population problem in light of the fact that the average American consumes more than 10 times as much as the average Indian, for example. Imperialism and the population problem are inextricably intertwined.

Originally submitted by,
Mike Perelman

Finally we conclude with a reinterpretation of the Monkey's Paw by Poe. As you know the story tells us that an old couple comes into possession of a Monkey's Paw which gives them three wishes. Just as we would expect from any red-blooded materialistic family, our family uses its first wish for money. The wish is granted, but only indirectly. The son dies and his parents collect on an insurance policy.

We see much similarity between reliance on magical wishes and reliance on a technology which seems to be able to rise above the limitations imposed by nature: The laws of nature can no more be violated by magical monkeys' paws than they can with our own technology. Nor can we predict the cost of our own so-called technological advances any more than the family knew that their son would die. So you see, the wish of the family is very much like our own greedy desires which led us to despoil nature for profit. The only difference is that the cost of the family's wish became apparent immediately. With our own technological wishes the final accounting may take many centuries.

The family uses its second wish to ask for the return of the son. You see, this was their only son and through their wish they extincted their line, just as we may have already extincted our own species through our technological tampering. Their son comes back - moldy and putrified.

The family was horrified when they saw the results of their second wish, and so they used their third wish to ask for their son's return to the grave.

The second wish reminds us of the attitude of those who would use still more technology to alleviate the effects of earlier technology. But the machine cannot clean up its mess. We believe that the family understood this fact and so they used their third wish to wish, in effect, that they have no more wishes. They returned their son to the natural cycle of birth, death, decay and birth. Now that the family used up its potential for living above the laws of nature it had no choice but to be governed by the laws of nature.

We too have come to a similar situation. Our supposedly great wealth was obtained by ripping open the treasure chest of nature, remolding a little and destroying much. Now precious little of our original wealth is left. We too must live according to the laws of nature.

If our statement should ever come into the hands of high ranking officials we know that it would be dismissed as utopian. Such people refuse to see that nothing is more impractical than the continued destruction of the biosphere upon which all of us depend.

COMMITTEE ON
PUBLIC AND CONSUMER EDUCATION THROUGH COMMUNICATION

The American public will not react unless each individual realizes the personal threat posed to him by the imminent ecological disaster. Through the use of the mass media we propose to relate to and inform all the American people of all aspects of the existing urgent environmental crisis, in order to change the public attitude to one of desire for constructive action.

Specifically, we have three proposals for the most effective means of dispatching the media for the above purposes, through a basic model of informing and educating the public through ecologically sane behavior.

1) We propose a saturation campaign to educate and inform the entire public through
    a) television and radio public service announcements and advertisements
    b) other media such as magazines, newspapers, etc., and
    c) the arts, such as billboards, posters, film, music, literature, etc.

2) We propose that the Federal and state governments finance an educational series of displays and lectures to explain fully the ecological problems facing us now. These displays and lectures are to be set up in shopping centers, library systems, and public buildings where they can be viewed and understood.

3) We propose that the Federal government forbid the withholding of any ecological information by industry, government agencies, groups, or individuals.

A MODEL FOR PROMOTING ECOLOGICALLY SANE BEHAVIOR

This model is based on the following assumptions:

1. The present behavior of man on the planet Earth and in particular the San Francisco Bay Area communities is ecologically insane.

2. The methods of changing mass behavior quickly - - political action and mass media saturation -- are not available to individuals in the ecology movement.

3. The slower methods of changing mass behavior -- education and religious training -- are partially open to individuals in the ecology movement.

4. A significant number of individuals in the ecology movement function in institutions of higher education.

5. Institutions of higher education are now the only social institutions whose resources can easily be mobilized to promote ecologically sane behavior.

6. At most only one percent of the present faculty will ever be actively involved in changing the behavior of the community.

7. The student population outnumber the faculty and administration approximately 20 to 1, therefore,the students represent the greatest potential source of community activists.

8. Steps taken to mobilize the academic community should be directed primarily to the students.

9. Students first must change their own behavior and then change that of the faculty and administration within the academic community.

10. Members of the academic community, primarily the students, will become the core of activists who will promote ecologically sane behavior in the community at large.

THE ACADEMIC COMMUNITY

I. Structure: Who can induce behavioral change within the academic community?

A. Administration
   1. Great formal power
   2. Can make structural changes which affect entire community
   3. Constantly busy with administrative problems and internal politics
   4. Too organized for really innovative changes, too many committees, too much bureaucratic red-tape
   5. Administrators usually rigid in thought and action -- too set in life style for creative response to problems

B. Faculty
   1. Power in area of curriculum -- control activities of classroom
   2. Have direct access to 80-100 students for 3 hours per week
   3. Constantly busy with committees, teaching, research, family, and petty administrative duties
   4. As a group, too disorganized to act as a coherent force within the community
   5. As individuals, usually rigid in thought and action, timid, lack sense of power to effect any important changes, too set in life style for creative response to problems

C. Students
   1. Little power to change institutional structure, or the college wide curriculum
   2. Ill-organized within institutional structure, or within classroom groupings -- very little intra-group communication or interaction within classroom groups
   3. Usually organized in sphere of extra-curricular activities -- previously have neither organized nor felt need to organize within classroom groups
   4. Ample free time to explore new modes of thought and behavior -- low resistance to behavioral changes based on a creative response to problems
   5. Increasingly willing to challenge authority in the area of public action and classroom groups, but still timid in the face of academic authority
   6. Life style still mobile -- only large population with a potential for sustained activism

II. Understanding the ecological problem
   A. Levels of understanding
      1. Level 1 -- awareness of ecology and its present effects on the individual
      2. Level 2 -- awareness of the present and understanding where our ecological disaster originated, e.g. the industrial system, man's disregard for his environment, individual alienation, the military, mass media, the political systems, etc.
      3. Level 3 -- understand the present and the past and realizing where we must go (future) for significant action to achieve persistent behavioral changes which are ecologically sane

   B. Develop and accumulate a comprehensive body of information pertaining to ecology. Information dealing with the entire problems of man and his environment, as well as information dealing with the specific problem with the ecology, such as population, pollution, waste, etc. A bibliography of available material should be compiled, distributed and kept up to date. A list of the groups working on ecology should also be maintained. Ideally, this information should be placed in a computer data bank located in an ecology center similar to the one being planned at San Jose State. (See Ecology Center, III, A, 3 below)

III. Direct education action
   A. Mobilizing the academic community
      1. Personal contact
         a. Talk to other students and to faculty about ecological problems
         b. Provide them with short informative, eye-catching hand-outs on particular problems such as pollution, population, waste, depletion of natural resources, etc.
         c. Request individual faculty to incorporate ecology concepts into their own courses
         d. Have other students ask their instructor how ecology relates to class and when necessary, point out areas that seem to relate to ecology

      2. Group contact
         a. Because each class is an almost independent unit with minimum ties to other classes, to departments and to the academic administrative bureaucracy, individual classes can be approached through either or both the instructor and the students
         b. Provide class with printed information on ecology and model of how and where ecological concepts relate or can relate to class curriculum
         c. Have available a group or individual presentation
         d. Once class is aware of problem, have suggestions on class activities related to ecology -- action programs to spread awareness of problem to other classes, to participate in larger group activity or to originate a class sponsored activity.

4. High School -- Because almost everyone must go to high school and only a select few attend college, and because those in high school are young, mobile and have not established firm consumer, political or social behavioral patterns, one of the most rapid ways to achieve ecologically sane behavior in the community would be to extend the curriculum change in colleges to high schools

B. Mobilizing the total community
   1. Information distributed via short, eye-catching hand-outs on particular problems such as pollution, population, waste, depletion of natural resources, etc.
   2. Talk to neighbors and other friends about ecological problems
   3. Make college total part of community by setting up special seminars and other classes which will play an active role in the community. This can be done through the existing structure: 180 classes (special problems), Experimental College, New College, Free University, etc.
   4. Set up conferences which can be used to inform people, to acquire additional information, and to find new ways of informing the public
   5. Organize festivals such as Survival Faire
   6. Organize marches to protest particular ecologically insane behavior
   7. Use gimmicks such as:
      a. Plant dead trees to show effect of smog
      b. Collect all garbage for one week and put on display
      c. Clean up a local creek or river, and display all of the trash found
      d. Wear surgical masks
      e. Hunger strikes
      f. Promote the use of bicycles over cars

THE GREATER COMMUNITY

I. Direct political action
   A. Campaigns on local, state, and national levels to force government response to particular ecological needs. Activities such as lobbying, demonstrations, letter writing campaigns, presentations before governmental committees, and petition and referendum

   B. Support parties and candidates who have ecologically sane policies and platforms. Activities such as precinct work, writing and speaking, fund raising.

   C. Working vigorously to defeat candidates who are unresponsive to ecological issues.

C. Politically induce boycotts by government agencies of ecologically dangerous goods.

(This proposal was originally submitted by George M. Smith, San Jose State College, and was approved for inclusion with the final proposal of the Committee on Public and Consumer Education.)

COMMITTEE ON
SCHOOL EDUCATION

It is essential that our children be schooled in a manner which promotes environmental concern and understanding. In essence it is our goal to establish a public morality on the environment through education. We also need to create trained individuals from our colleges who can deal with environmental problems in the necessary broad perspective.

We have come up with one concrete thing which we can do at this moment for the State of California, which is a petition to the state legislature in support of a bill providing funding for a law which is already on the books.

> We, the delegated representatives to the FWPCA conference, Pacific Southwest Region, declare our strong support for funding bills such as California S. B. 206 providing:
>
> - - Conservation education service in the Department of Education
>
> - - Grants to local distructs for conservation education.
>
> We acknowledge that the serious intent of such legislation is manifest by the amount of funding support for it.

Sent to: Robert Lagomarsino (Senator, Ventura)
George Milias (Assemblyman, Gilroy)
Gov. Reagan, c/o Dr. Alex Sheriffs -
Special Asst. for Education

We have divided our list of proposals up by the agencies or people who will have to carry them through, rather than by priorities.

Interior Department (Federal Government)

1. The department should send informational packets on environmental issues and speakers from their agencies to high schools on April 22. They should inform the schools that such services are available for the national teach-in and other occasions.

2. The department should provide educational support funds for students - scholarships, fellowships, and expansion of present grants to allow sufficient funds for independent student research, especially interdisciplinary and graduate studies. The basis of acceptance for such grants should be broadened. Matching funds should be available for the institution in which the student is enrolled to establish new graduate quotas.

3. More research money should be made available for professors carrying on environmental research. All research money requests should be simplified so as to eliminate red tape and make grants easier to get.

4. The government can help provide internships with government agencies and the UN. Funding should be available like the workstudy program to provide jobs with conservation groups on summer or part-time bases.

5. Support should be broadened for teacher training programs in environmental education. See Modesto proposal, following - this section page 18

6. Junior White House fellowships in environment should be established.

7. We also support the Modesto proposal for an environmental data center, and the use of computer networks.

8. Grants for environmental film projects which will emphasize the problems, to be made by college and high school students and shown in the school systems.

College level programs which will have to be worked on at individual schools:

1. Environmental study centers.

2. Coordination with local communities on their problems, situation rooms.

3. Interschool interdisciplinary programs, credit from other universities.

4. Coordination of departments within schools.

5. Undergrad and grad degrees in environment.

Proposals to be carried out at the state and local levels: (Ways of working on these proposals; school boards, PTA's, professtional teacher organizations, letter writing, etc.)

1. Population problem emphasis in sex education.

2. Conservation should be emphasized in every course - the inter-relationships between man and his biological and physical environment have a place in every subject, and the interrelations between subjects should be emphasized.

3. Whole days set aside for speakers and discussion on environmental issues. Example: Concord, California Youth Council going into the schools for a day. Hayward High School at which ecology is one of two alternatives of which the students can choose to spend the whole morning of study.

4. Use student government leaders to work as organizers on conservation in schools.

5. It should be mandatory that jr. high and high schools offer a course on ecology and population dynamics which also introduces the concept of participatory conservation, i.e., working with conservation groups or public agencies on projects. The class should only be taught by a teacher who has been in a specific teacher training program on environment studies.

6. More environmental films needed and broader viewpoints, especially on the problems and ways in which people can work on the solutions.

7. Funding for more and better textbooks available - adoption of texts like the Ferguson Publishing Co. series which ties environmental issues in with other subjects. Or things like the NEED program of conservation education and population problems.

8. Adult education classes for people planning to get married, in population problems. Short course mandatory for getting license.

MODESTO JR. COLLEGE PROPOSAL

Possible solutions to environmental pollution problems may be achieved by means of the following procedures:

1. Since education represents a prime information dispersion source, we believe that government funds should be provided to subsidize courses or programs in public education institutions concerning environmental deterioration and problems of conservation. Such funds for this subsidy should come through the Department of Health, Education and Welfare.

2. Since it is virtually impossible for one individual or group of individuals to be totally informed of all the recent and pertinent research involving environmental pollution, we recommend the establishment of a central, federally supported communication center on ecological information. This data retrieval center could then be a valuable resource to everyone concerned with environmental problems.

3. Since solutions to problems as grave as environmental pollution require concentrated efforts on the part of the science community in order to understand and recommend courses of action to solve these problems, we feel that the activities of the National Science Foundation should receive additional financial support for problems specifically involving environmental research.

4. Finally, we would further recommend that an annual presidential environmental conference be established in order to provide direct lines of communication between concerned citizens and elected officials.

Submitted by Students for a Better Environment, Modesto Junior College Modesto, CA, and adopted by the Committee on School Education and the Conference as a whole

Discussion of proposals revamping primary and secondary education and on getting environmental majors in undergraduate and graduate programs:

The first proposal regards making substantial changes in secondary education to place greater emphasis on environment and interrelationships. An example of this is being done at Hayward High School in California at which ecology is one of two subjects that the students can choose to spend a whole morning of study at. Outside people are invited in and the talks are followed by discussions.

In regard to proposals for complete changes in the nature of primary education, there are many new experiments being tried outside of the public schools system all over the country. I might mention that Paul Goodman's ideas on abolishing the divided subject matter curriculum and having students experience their environment and its inhabitants under the guidance of a competent individual, would develop the kind of feeling of involvement and environmental social sense that we need.

In regard to the proposals for undergraduate programs, please refer to the proposal entitled "an example of an interdisciplinary Curriculum in Human Ecology," submitted by Charles Olsen. Another example is the program called "Experimental Field Major in the Conservation of Natural Resources" offered by the College of Agricultural Sciences and the School of Forestry and Conservation at the Univ. of Calif. at Berlekey. This new program, which began in January, grew out of thestrong response to an interdisciplinary undergraduate course entitled "Man and his Environment" which began in the fall quarter. Most of the difficulties with getting this program established had to do with interdepartment rivalry and the strong belief among professors and others that the basic nature of collegiate education is to turn out a specialist, and this program would lead students to wander off into generalities and keep them from pursuing some single field.

At the graduate level the situation is worse, because red tape and insecure department heads make it more difficult to sponsor an individual toward work which involves many departments and in some cases, different schools.

A third reason is of course, funds. We believe the money is available in the state of California and the nation to do the things that need to be done, but it is controlled for shortsighted and selfish purposes. For example, the supersonic transport program (SST) and the war in Vietnam - both of which are ecological disasters in themselves.

Since this conference is at the level of the Federal government, we propose that Federal grants be made available immediately through the requests of individuals, to individuals and institutions who wish to study environmental problems that cut across many fields and will necessitate schools establishing the machinery for them to do so. If the grants are made to schools, matching grants for the individual, this might solve the department-oriented graduate student quota problem. Specific environmental scholarships should be made available for undergraduates also, to encourage the philosophy of education in context, rather than the present specialized and fragmented approach.

The sort of grants we have in mind are like the FWPCA research fellowships, only expanded to include support for an education which would train the individual to look at the whole problem. This individual would have a good understanding of the subject, interests, and needs of the politician, biologist, farmer, government agency, etc., although not necessarily the technical training of all, and therefore would be better capable of coming up with the best solution than any of the individuals or agencies alone.

This requires a synthesis of the sciences and humanities, to combine the needs and limits of both. One of the best ways of getting this kind of education is through participation in present problems. We propose summer and part-time work support programs where individuals could be funded to work with conservation groups along the lines of the work-study program, and internships with state and local government agencies, and with the United Nations.

The last proposal involves the concept of interschool interdisciplinary studies, in which students can take a few courses at different schools and get credit for them without the red tape of transferring. This will enable people to obtain a broad background by studying with the best people in many fields, while remaining within the program of one school.

Whether you fancy the term "nature's ombudsman" or "ecosystem manager", there is no doubt of the need for such people. But the processes of changing the educational system in this country are slow and any government impetus that can be given will only be a beginning.

Submitted by Ruthann Corwin, 361 60th St, Oakland, CA, for the Committee on School Education and adopted by the Conference as a whole.

AN EXAMPLE OF
AN INTERDISCIPLINARY CURRICULUM IN HUMAN ECOLOGY

The purpose of presenting this proposal is to communicate the need for establishment of similar programs at other colleges, thus enlarging those of us who are educated and involved and those of us who may remain involved after college.

This particular proposal is not career oriented, but rather a two-year undergraduate, lower-division course of studies centered about the physical, biological and cultural environment of Central California.

The project will involve 10 faculty and 200 students. Over a two-year period the students and faculty will investigate in depth the environment and the changes that are occurring within it. The course of study will involve many disciplines and techniques of analysis not commonly associated in existing courses. No separate courses such as ecology, physical geography, history, etc., will be specifically identified, although the standard "General Education" requirements will be met. The program will emphasize <u>active participation</u> by the student in field and community centered activities. Students will participate at various levels in data generation and interpretation not only for their own educational objectives, but for community use as well.

Although no specific courses will be given, students will develop a competency equivalent to general lower division standards in a core of academic disciplines. These disciplines would be represented by competent teacher-scholars from the following areas: Language and Literature, Mathematics, Physical Science, History, Biology, and Geography. These represent a core in the sense that they deal respectively with verbal communication, qualtitative communication, time, life, and space. In addition, several other disciplines would be represented; most probably from the following areas: Geology, Anthropology, Economics, Political Science, Psychology, Sociology, Physics, and Art.

To achieve maximum college-community interaction, students and staff will work with local public agencies in such activities as environmental testing, community surveys, citizen forums, and environmental planning. The college, through special funding already available, will undertake a major community education effort in conjunction with the project.

This program is valid for both community colleges and 4 yr institutions.

Two evaluation procedures will be followed: (1) In addition to continued evaluation by the staff, at the end of each section (semester) of the program, both students and staff will formally review the program to date, and the staff will prepare a detailed analysis of the effectiveness of teaching techniques, value of curriculum components, and overall educational achievements. (2) At the end of the first year and at the end of the two-year program, a small group of teachers, administrators, and community leaders not associated with the program will be asked to make an independent evaluation.

The curriculum will be structured for full accreditation and appropriate areas of study will be accepted for transfer to colleges or universities.

Communication about this program may be directed to:

Dr. Robert E. Swenson, Superintendant and President
Dr. Frederick W. Schuierer
6500 Soquel Drive, Aptos, CA 95003

Submitted by Charles Olsen, 411 Monterey, Santa Cruz, CA 95060, for the Committee on Education and adopted by the Conference as a whole

COMMITTEE ON
RESOURCES

The primary consideration about resource use is that we cannot continue to use resources at an ever-increasing rate. Factually, all the consumptive resources are finite, so there is no longer a real meaning to 10, 20 or 30 year resource availability. Additionally, some countries are taking an unfair advantage of others and utilizing more than their fair share (such as the U. S.), with 7% of the world's population using 50% of the world's production of raw materials.

To achieve control over the increased resources usage, we must work toward zero population growth and reorientation of our economy to achieve a long-term usage of resources at a rate commensurate with replenishment. We must aim toward homeostatic eco-regional systems.

As an example, energy is produced principally through destructive burning of fossil fuels which require geologic time to replace. We need to start immediate research into new technology of energy production, relying on replenishable or free energy resources such as sun or wave energy.

Comparably, reuse technology must be tremendously increased to better utilize other consumptive resources.

Anything ecologically unsound is uneconomical. Ecology is the Life System. Economy is Man's Mechanism for Deriving His Needs From The System.

In the past, economics has been unsound - because it has not taken the long term ecological view.

As programs toward these goals are being developed, we present some interim proposals:

1) The Interior Department can set new guidelines on exploitation (principally to slow down extraction) and exercise more control to prevent environmental degradation through the exploitation process.

2) As an example of the need for a change in land usage, coastal wetlands must be bought up or controlled to prevent future exploitation.

3) The Interior Department should immediately set up new rules for our national parks towards eliminating cars, pollution and littering-all brought on by overcrowding.

4) Local use of available air and especially water resources must be from an eco-regional standpoint -- to support only that population which these resources will naturally support (e.g. stop the peripheral canal).

5) Amend the Water Pollution Control Act to require all federal agencies to comply with applicable pollution control standards and the Air Quality Act.

6) Immediate cessation of all off shore oil drilling.

POLLUTION EFFECTS OF NATURAL RESOURCE EXPLOITATION

The exploitation of natural resources - land, oil, minerals, timber, and water - inevitably causes environmental deterioration. It should be the expressed function of the Department of Interior to reduce these ecological impacts to a minimum. However, the burden of this task should rest on the organizations who utilize our natural resources, either on public or private land.

Consequently, the following procedure is recommended to the Department of Interior.

All companies or individuals who intend to undertake developments which will affect natural resources under the jurisdiction of the Department of Interior must be required to apply for a permit from the Interior Department. This application will be in the form of a bid for use of the resource. The criterion for selection of the best bid will be based on the minimum impact on the ecology of the area.

1) Description of the environmental modifications anticipated.

2) Expected sources of deleterious effects on the ecology of the area.

3) Organization of a thorough monitoring program which will obtain statistically meaningful data to measure the alterations of the resource to be protected.

4) On-going pollution control program to be conducted during the period of resource development.

5) Clean-up program upon termination of project which will restore the area to conditions equivalent to its prior state within a predetermined period of time.

The cost of this program can be supported by tax incentives, tax revenues and by increased cost of the final product to the consumer. Thus, the consumer may be paying a price which is more commensurate with the environmental impact of the production of the product.

Provisions must be made for enforcement of the pollution control program such that a resource use permit can be revoked at any time if the organization is remiss in carrying out this program. Periodic inspections of the compliance with the resource agreement shall be made public.

Michael Kavanugh
Graduate Student
University of California, Berkeley

COASTAL WETLANDS PROPOSAL SANTA BARBARA

In 1957 California had over 3 million acres of coastal wetlands and marsh. By 1966, dredging and filling by governmental agencies and private enterprise had reduced the area to 500,000 acres. At the present only a fraction of this reduced area remains intact. Every acre of coastal wetlands is a rare and irreplaceable natural resource necessary for the continued existence and evolution of unique life forms, and important as a transient home for many migratory birds.

It is thus imperative that the Federal Government, supported by the Department of Interior purchase all coastal wetlands areas of the Pacific flyway and appropriate surrounding buffer zones and declare such areas as National Wildlife Refuges, permanently protected from all outside encroachment.

CONSERVATION/ECOLOGY CLUB

California State College at Hayward

Proposal re NATIONAL PARKS

PROBLEM: With the increased pressure of population and resultant crowding of our national parks, new methods of park usage must be instigated immediately. It is apparent to any observer that during the last few years parks have become over visited and the quality of some (e. g. Yellowstone and Yosemite) is falling. We feel that park services should no longer attempt to satisfy that large segment of park users who would have the parks turned into a freeway service center and vast parking lot. Cars don't care about parks, people do.

SUGGESTIONS:

1. Stop construction of automobile oriented services in national parks. (This means no more hotels, motels, parking lots, restaurants and snack bars.) Eliminate all cars by 1975 in parks and set up tours with open type smog free buses. Convert areas on the edges of the national parks, which are often barren, into tree-hidden, or underground parking lots. These could also be the staging areas for the park tours.

2. Publicize the problems now facing the national parks to garner public support to improve the steadily worsening situation. Show that the "urban blight" in terms of crowding and pollution has been carried into our national parks. State what measures will have to be taken to preserve the remaining natural beauty of our parks.

3. Provide services for people not automobiles. Improve the camping setup for campers ---- not vehicles. Organize camping groups of various sizes and lengths of visit into the more inacessible regions, with emphasis on preserving the natural areas. Implement suggested programs to set up a reservation system on a first write, first come basis to prevent overcrowding. Check out packs of individual campers for possible polluting items and to ensure safe camping practices.

PROPOSAL:

Man is not alone in desiring to use the earth's resources; other living things need air, water, soil, living habitat and food to sustain life, i. e., any further development must take into consideration other creatures as well as man.

We oppose the major diversion of waters from their normal paths of flow. We do not feel it is ecologically or economically feasible to transport water great distances to supply major population centers and enable these centers to increase their capacity to support more people.

SCOPE

Public Lands and Resource Committee

As a first step toward slowing the degradation of our environment, and recognizing that the Federal Government is itself a leading polluter of the nation's waters and air, the following recommendation is made:

> That the Water Pollution Control Act (33 U. S. C. 466 (h)) be amended to read as follows: "All Federal agencies shall control pollution of waters so as to comply with standards set for interstate waters of like character, whether or not the agency activity occurs on waters under the jurisdiction of the Federal Water Pollution Control Administration. Particular attention shall be paid to the prevention and control of pollutant activities arising on Federal lands or caused by the activities of users of Federal lands. In addition, all Federal loans, grants, and contracts shall include provision for determining that the recipient of Federal funds shall comply with Federal pollution control standards. Enforcement of the above provisions shall be the duty of the agencies concerned with the assistance of the Federal Water Pollution Control Administration."

A similar provision should be made to amend the Air Quality Act of 1967. These recommendations are made in realization of the urgency of pollution control, and in the belief that no Federal agency should be allowed to plead poverty or incapacity in not acting to control pollution. The expeditious and effective control of pollution is the responsibility of all, and it is inexcusable that the Federal Government should do other than lead the way. We not only can, but must do better.

Despite a 15 yr. effort by Santa Barbara community leaders, an effort which succeeded in getting state waters declared a santuary, the Department of Interior promoted drilling in federal waters to head off depletion of "their" pool of oil by wells in adjacent state oil tracts.

These first leases were made without any consultation with local community leaders or public hearings. Local officials were not informed when bids were first called for. In fact, the first bid was accepted before there was any public announcement of leasing in the channel. The reasoning against public hearings was explained by J. Cordell Moore, Assistant Secretary of Interior, "We preferred not to stir up the natives any more than possible." Not only was the drilling promoted without any concern for community sentiment but it was promoted in an area that is one of the most earthquake prone in the country. The floor of the Santa Barbara Channel is composed of fault-ridden porous sands that even under natural circumstances allow seepage from the underlying oil reservoir which lacks a bedrock cap. Drilling in such an area is obviously insane. Wells disrupt the delicate geological balance maintaining the reservoir. In addition, an earthquake could potentially shear the well castings, opening thousands of producing wells in the Channel.

On January 28, 1969, the inevitable happened, a massive eruption of crude oil coated the beaches of two counties and caused the wholesale slaughter of sea birds, sea lions, whales, and other wildlife. The response of the Department of Interior has been a series of inept actions, lies, and broken promises.

In response to the eruption drilling was halted, resumed, halted, and resumed again when protection was supposedly afforded by "stronger regulations." The leak has never ceased since January. Periodically, the tent designed to trap the oil leaking from the fissures breaks. Additional oil spills from new drilling also occur regularly and are explained as "normal" for such operations. Testimony from Department of Interior and U. S. Geological Survey engineers state that prevention of such "accidents" are technologically impossible. On December 17, 1969 a pipe burst below platform A leaking so much oil it obscured the renewed eruption of oil from the original fissures opened by Union drilling.

All Interior decisions are based primarily on information from the oil companies, information that the Department refuses to release to the public. For example, their official figures for leakage was 630 gallons per day. General Research, an independent firm with extensive experience in marine research, put the figure minimally at 8,400 gallons per day.

Interior figures on seabird damage were confined to those that died at the "hospitals" set up in Santa Barbara, despite the fact that most birds afflicted by the oil would have a difficult time reaching the "hospitals." As it was only 20% at a maximum of the thousands treated, recovered. The Interior Dept. claims such efforts were "successful." Despite evidence from University of California field trips verifying extensive deaths of sea lion pups on the Channel Islands, Interior insisted the pups were actually "asleep." The study of wildlife damage is being conducted by the Hancock (of Hancock Oil) Institute

at USC on a 150,000 dollar grant from Western Gas and Oil Association.

To get the facts the Dubridge Panel was convened by the Interior Dept. Dubridge is a former President of Cal Tech which has received massive funding for projects from the oil companies. Again they relied almost entirely on secret oil company data, despite well publicized attempts by the oil companies to control information by approaching U.C.S.B. faculty with conditional research grants giving the oil companies power to suppress the results of oil funded studies already in progress. The Dubridge panel deliberated for two days and decided that the oil companies should continue drilling to "reduce pressure," (over 100 new wells and a new platform have since been authorized). This term was used in nine subsequent Dept. of Interior statements. When information from the Dubridge investigation leaked out showing that there was no longer any pressure in the oil reservoir, just some pressure remaining in the overlying oil sands, the terms subtly changed to "delete the oil." The original reason drilling was promoted was to prevent deletion by existing wells on state property. However, the worst manifestation of Interior policy has been the routinization of evil. The issue is no longer whether or not the channel is polluted, but how much is it polluted. An oil slick discovered off a Humble platform this summer was dismissed as a routine drilling by-product. About half the oil still seeping into the Channel is alledgedly being recovered and this is presented as adequate control. As seepage from the latest December eruption was brought under control, officials spoke of the seepage being back down to "normal" levels, as if a spill of 8,000 gallons of oil per day is now the natural order of Channel life.

COMMITTEE ON
NATIONAL RESEARCH - TECHNICAL CENTER

1) We propose that the Federal government immediately establish a National Institute for Applied Pollution Research. This Institute will operate within an interdisciplinary, ecological framework with responsibility to develop technological solutions to problems of pollution. It will also serve as an international clearing house for information on pollution research, helping to coordinate diverse studies as the Institute develops proper technology it will establish contamination standards to apply through Federal jurisdictions. "Show cause" orders may be used to assure compliance with these standards. This Institute must be funded on a scale commensurate with the enormity of the problems it is charged to solve. The Manhatten Project may serve as an appropriate comparison.

2) Immediate protection for and cessation of all filling in our estuaries is necessary. They should be made free of pollution by 1972. An example of misuse of estuaries is the sewage processing plants in the San Diego County salt marshes. All such misuses must cease.

3) Recycling of waste water and desalinization should be given priority over long distance water transport.

4) There must be stronger control of petroleum pipelines and other transportation facilities with potential for environmental damage.

5) The California State Water Project, parts completed and uncompleted, is an example of prejudicial misplanning. There is a great need for re-examination of the water requirements of Southern California. The priorities for the protection of the environment must be reevaluated.

   The Department of the Interior has an unfortunate history of violation of ecological principles. With the increasing public awareness of environmental problems, and the threat of an impending ecological crisis, it is imperative that the Department begin the job of applying ecological considerations to the Peripheral Canal, San Luis Drain, and all related projects. We propose a moratorium on the State Water Project and a reevaluation by a qualified non-governmental body with consideration given to ecological implications and long range costs.

6) We demand that if a water project is carried out, any user of water from that project must pay for all of the cost of transport, delivery, and disposal. These costs should include those of destruction of river valleys, scarring of the landscape by pipelines and canals, pollution of water resources by waste water, and others not presently considered in most determinations of water project cost and benefit analyses.

NATIONAL FUNDING

The red tape that researchers must untangle in order to receive funds must be abolished. Research in fields such as effective sewage treatment, realistic septic systems,phosphate removal and many others must be accelerated with government funds immediately, if we hope to have pollution control in the near future.

Proposal for the Reevaluation of the
Peripheral Canal and all Future Water Projects

Be it proposed that:

1. In all water projects undertaken in the United States , the water quality standards established by the Federal Water Pollution Control Board be strictly adhered to and enforced.

   The State of California Water Resources Board's attempt to establish water quality standards based on a Sacramento - San Joaquin Delta outflow of 1500-1800 cubic feet/second is an attempt to justify the reduced outflow caused by the removal of Sacramento River water from the Delta system by the proposed Peripheral Canal and the result of the disposal of low quality water from the San Joaquin Valley in the Delta system via the San Luis Drain. The proposed standard falls short of the Federal requirements as well as the ecological requirements of the Delta.

2. A comprehensive study be undertaken on the ecological effects of any proposed water project.

   "Based on today's unsophisticated standards for fish and aquatic life and the inadequacy of our knowledge of certain environmental requirements of the organism, to enter into long-term contractual agreements containing inflexible minimal-maximal water quality criteria would not be in the best public interest." [1]

3. The primary concern in any proposed water project be the effect on ecological systems, that habitats of the several species concerned be preserved.

   A delicate ecological balance exists in any marine or fresh water system. The very existence of many species depends on the delicate balance of several factors, such as salinity, water flow, water quality and water temperature. Since the full effect of the changes of such huge and diverse systems is unknown, consideration must be taken to protect the system by proceeding with all caution. Damage to ecological systems is irreversible and often catalytic.

   An example of the balance is seen in the relationship between the abundance of striped bass in the Sacramento-San Joaquin Estuary and the Delta outflow. As the Delta outflow increases the abundance index of the striped bass increases proportionally. With the advent of the Peripheral Canal and subsequent reduction of Delta outflow (a cut of 60-70%) the carrying capacity of the striped bass will be reduced.

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1 Fred H. Tarp, Ph. D., Ecological Effects of Federal-State Water Planning on the Delta Fisheries, report to the Costra Costa County Board of Supervisors Ex-Officio Governing Board Contra Costa County Water Agency, March, 1967.

4. That secondary consideration in water projects be given to recreational and agricultural needs in the area of the proposed water project.

   The encroachment of saline waters into the Sacramento-San Joaquin Delta would destroy what is now extremely fertile agricultural land and greatly deminish sport fishing in the area. The reduction of inflows and outflows of fresh water would decrease the ability of Bay-Delta waters to absorb effluent waste materials. Aesthetic and agricultural values of the region have not been sufficiently considered by the California State Water Resources Board or the Bureau of Reclamation in either the Peripheral Canal proposal or the San Luis Drain.

5. Water resources be used for commercial development only after the above interests are satisfied and that industrial users of water resources be held responsible for maintaining the standards of water quality set by the Federal Water Pollution Control Board.

   "The role of the Department of Water Resources has changed from a conservation agency to a state-operated utility which is in the business of selling the state's water resources."[2]

   In the matter of the Peripheral Canal the interests of Southern California land developers is apparent. To these men the potential ecological disaster is of no consequence. Their disregard for the public's interest must not be allowed.

(This proposal was originally submitted by F. B. Mason, Jack Humphrey and Ann Baker of Ecology Action, Contra Costa College. It was approved for inclusion with the final statement of the committee.)

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2 Jerome R. Waldie, U. S. Congressman, in an address before the Commonwealth Club of California

DEPARTMENT OF ENVIRONMENT

Recognizing that a national environmental emergency exists, we hereby propose the creation of a national board of ecology consisting of representatives from ecological regions that would have the final word on any problems relating to the environment. This would be an emergency interim board to cover the gap between now and the creation of the Department of Environment, whose basic principles would consist of the preservation and maintenance of the natural environment.

COMMITTEE ON
TAX INCENTIVES

One of the most effective means available to the government of the United States for influencing the actions of her populace and industry is her system of taxation. Obviously, by hitting American industry in its proverbial pocket-book, the Federal government would be able to make big business responsive to the ever-increasing environmental crisis.

Basically, our proposal is to tax the polluters on their rate of pollution. The money gained from these taxes could be devoted to research into less ecologically damaging alternatives.

SPECIFICS:

1. Car registration fees could be based on exhaust emission tests.

2. That industry be taxed on the amount of pollution produced; instead of basing this on industry estimates, the figures should be obtained by objective observers.

3. There should be tax incentives for recycling by industry. For example; a high deposit on bottles, or tax incentives to people who want to establish a recycling industry, such as wall-board from garbage, abrasives from glass, or recycling paper pulp.

4. In addition, the Federal government should have a system imposing a tax on manufacturers in the form of an imprint to be stamped on all non-recycled and non-reused containers; such as bottles and steel and aluminum cans, etc. The manufacturers in conjunction with the imprint (tax) would then find it economically advisable to levy a fee in the form of a deposit on all the recycled containers used by the consumers. The consumers, in turn, would find it in their best interests to return the containers, thereby getting their high deposits returned.

5. Using tax monies in conjunction with other federally allotted funds, we propose that the Federal government grant direct aid to municipalities for the establishment of recycling plants for inorganic materials - water, glass, aluminum and ferrous metals, etc. (i.e., Houston has for 2 years been engaged in a highly successful recycling program such as the one described above).

6. Those municipalities dumping raw sewage should be fined by the Federal and State government in the following manner:

   Accumulated personal taxes of a polluting community may be reimbursed in that community by the Federal government in order to establish proper pollution abatement program with the community.

7. No tax deductions should be given for more than two children, with the exception of adopted children.

Maureen Dere	Campolindo High School
Jackie Cabasso	" " "
Doug Barnes	" " "
Paul Tieck	Sacramento " "

COMMITTEE ON
INDUSTRIAL RESPONSIBILITIES

I. In an attempt to reduce to an absolute minimum pollution caused by both governmental and private agencies within a definite time period, the following are suggested:

A. Anti-Pollution Permit for Private Industries.

1. Retroactive fines for the existing pollution problem would be unreasonable, but pollution caused by industries after a short time limit would be fined progressively at an increasing ratio according to the amount of pollutants discharged to which they are held responsible. (For example, if a company fails to comply with pollution control measures by the end of a short time period, they would be fined and given a shorter extension.)

2. An operating permit (established on the same basis as a building permit) would be established allowing the operation of only those plants which comply with pollution control measures. This permit would be subject to renewal annually.

B. Government agencies.

1. Appropriations to governmental agencies held responsible for discharging pollutants would be reduced.

2. Operating permit as described above would also pertain to the establishment of governmental agencies.

II. To utilize existing laws, stricter enforcement and clarification of their extents should exist.

III. Industrial responsibilities should be included within the educational program being established.

IV. Lobbying

1. No lobbying activities, by both profit and non-profit organizations, shall be tax deductible.

2. Lobbying activity by a non-profit organization shall not affect its tax-exempt status, due to lobbying.

V. All pesticides manufactured within the U. S. for exportation shall be limited by all bans and controls that have been set up for their sale and use within the U. S. We can not have a "No Poison" policy in this country if we do not at the same time extend it to what we export.

VI. Reduce food tolerance levels on chlorinated hydrocarbons and organic phosphate groups to zero.

VII. All pesticides manufacturers and users within the U. S. must have a licensed permit to either manufacture or use their pesticide product, meeting all bans and controls in the U. S., and issued annually by the Government.

VIII. Air Policy

As the dangerous effects of fossil fuel use have become increasingly clear, we declare that the air pollution problem has reached crisis proportions. Alternatives must be sought and implemented. We feel that a number of possibilities exist, including for example nuclear power. The long term solution to the metropolitan auto pollution problem is adequate public rapid transportation. However, we recognize that in the time lag it will take to implement this transportation system, the environment will continue to worsen from the pollution produced by autos. It is felt that the auto makers have been negligent in controlling the emissions from their cars. This negligence can no longer be tolerated. Therefore, we urge the Federal Government to vigorously push the suit originated against the auto industry.

Massive research is vital to find short term solutions, such as engines with negligible emission levels.

To get the auto industry to move on development of new low emission means of propulsion, it is felt that the internal combusion engine (ICE) should be banned within the U. S. Government as of 1975 in accordance with State Senator Petris' bill introduced in the past session of the legislature. This ban would serve as a mandate to the industry to introduce new and acceptable means of vehicular transportation within the State. Coupled with this ban is the request that the State make available money for research on alternative potential means of propulsion. Also, those ICE's build before the 1975 ban must meet strict low emission standards.

To greatly increase federal and state budgets for research aimed at greater understanding of the causes of air pollution and development of the practical means to eliminate it.

Polluters should pay the full cost of governmental air pollution control programs. This should be achieved in a framework of incentives for better industrial effort and consumer discrimination that rewards low levels of pollutant emissions and penalizes the operation of grossly polluting devices.

To reduce reliance upon the inefficient and ecologically unsound private automobile for in-city transportation, by planning, funding and building regional rapid transit systems as soon as possible.

1. Nationalize all public forms of surface transportation.

2. Provide surface transportation to all people free of travel fares or fees.

3. Subsidize free travel for the people from freight profit or from an annual tax based on our family income.

To immediately place absolute maximum limits upon hydrocarbon emissions and emissions containing lead, oxides of nitrogen and other pollutants, from all fossil fuel powered vehicles, including (without limitation), trucks and automobiles. This would apply to all new and used vehicles sold after January 1, 1975, with such limits to be at levels which will insure reasonable air purity, regardless of whether compliance forces abandonment of the internal combustion engine for powering private automobiles.

To immediately require use of natural gas or other low emission fuels by owners of vehicle fleets, and by others where such use is practical.

To require that all pollution control devices on new vehicles meet present and future emission standards without maintenance, or in the alternative, require that such periodic compliance inspections and maintenance as are necessary be at the sole expense of the original manufacturers.

To adopt rigid emission controls covering used vehicles imported into states having standards for new vehicles, regardless of whether the importation is for sale or private use.

To divert a substantial part of gas revenues levied under Article 26 of the California Constitution, and under similar laws of other states, to provide funding for rapid transit systems, research on air pollution, and administration of existing air pollution laws.

Encourage use of non-polluting synthetic tires. Rubber tires cause a substantial amount of air pollution.

IX. Oil Drilling

As a prime example of industrial responsibility, oil drilling should be immediately ceased in the Santa Barbara Channel.

In 1902 a law was passed stating "No land holder will receive irrigation water for land in excess of 160 acres." The Department of Interior by allowing the State Water Project to continue is in direct violation with this law. We demand a Congressional investigation into the nonenforcement of this law.

This proposal was prepared and submitted by students from Campolindo High School

Text of Wire Sent to President Nixon and
Secretary Hickel on December 30, 1969

We highly commend Sen. Henry Jackson for his initiative in establishing through legislative action the new president's Council on Environmental Quality.

We strongly urge President Nixon to consider most carefully his choice of three men to fill positions on this Council as well as men for the supporting staff. We offer our support and advice to the President and to the Council, through the national and regional structure of the Student Council on Pollution and Environment, established at this meeting.

We recognize the establishment of this Council as a providential beginning. We hope it represents a new federal approach to environmental quality priorities.

(This resolution was unaminiously approved by the full conference.)

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Substantive Proposals by Students at the Northeast Regional Meeting

Set up a mailing list through the Regional Office.

Set up a newsletter similar to the Audobon Society.

Student comments in general indicated an impatience with progress in pollution control, concern for thermal and nuclear emissions from power plants and an understanding of the problems with existing legislation. There were a number of detailed and specific questions in particular areas. Detailed proposals were to be discussed at the January 11, 1970, meeting with the SCOPE committee.

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MISSOURI BASIN REGIONAL SCOPE

RESOLUTION ON POLLUTION

PASSED DECEMBER 29, 1969

1. Pollution is an interrelated problem -- it cannot be approached on a segregated basis.
2. Environmental quality should not be subordinate to the economic profits, but the economic profits should be a subordinate factor of the environmental quality.
3. The burden of responsibility should be placed upon the "individual polluter" and not the public.
4. Laws fixing responsibility for pollution must not be general but specifically placed upon the individual polluters.
5. Further production of the internal combustion engine, as it exists today, to be made illegal by 1975, and other forms of non-pollutant transportation be utilized for mass transportation.
6. More rigid State, local, and federal pollution standards, to become more increasingly rigid.
7. The elimination of overhead wires, billboards, flashing neon signs, and all other elements which do not enhance the visual environment.
8. Pesticides, herbicides and organic and inorganic chemicals should be more rigidly evaluated and a more stringent control should be placed on their use.
9. Environmental action must be geared to the "total world community."
10. Chemical and biological warfare and research on a planetary basis,

should be eliminated immediately, by an ecologically acceptable method.

11. The Federal Government through its legislative and executive power should call for an immediate halt to the economic concept of planned obsolescence and encouraged waste.
12. "Eighteen years old" -- the minimum voting age.
13. Because the "population explosion" is the major contributor to the environmental crisis, it is essential that measures are taken to stabilize the population. Then and only then will the efforts for solving the ecological problem succeed.

We request the above resolutions be activated immediately and that this administration initiate legislation at once to avert disaster because of the flagrant and prodigal abuse of our natural resources and the wholesale pollution of our environment.

We must recognize that the earth is not infinite but finite and we are courting disaster.

Signed "SCOPE"

Missouri Basin Region

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C. C. Buck
5429 Falmouth
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KANSAS UNIVERSITY
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Lawrence, Kansas
Robert F. Burford
Blue Springs, Missouri

KANSAS UNIVERSITY
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Boonville, Oklahoma

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7144 Dearborn
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Joseph W. Hewitt
RR 2
Osawatomie, Kansas

KANSAS UNIVERSITY
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Mark Shapiro
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KANSAS UNIVERSITY
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Lawrence, Kansas
Jeannette Shubenberger
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Carol Yack
Mission, Kansas

LONGVIEW COLLEGE
Rita Hohman
10710 Wheeling

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St. Joseph, Missouri
Mike Flanagan
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MISSOURI WEST COLLEGE
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2622 Mary St.
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PARK COLLEGE
Parkville, Missouri
John M. Hamilton
Parkville, Missouri

PARK COLLEGE
Parkville, Missouri
Ernest Franklin
Parkville, Missouri

PURDUE UNIVERSITY
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#1527
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Donald W. Meyer
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Raytown, Missouri

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Springfield, Missouri
Wayne A. Coldsnow
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1228 E. Belmont, A-5
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Anne Sutherland
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Newton, Kansas
Doug Davis, Jr.
Same

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Beverly Hepner
2130 Euclid

WICHITA STATE UNIVERSITY
Rex McPeak
418 N. Roosevelt

WICHITA STATE UNIVERSITY
James E. Myers

WICHITA STATE UNIVERSITY
James R. Williams
232 Hemphill

WICHITA STATE UNIVERSITY
Craig D. Young
153 N. Poplar
Wichita, Kansas

WILLIAM JEWELL COLLEGE
Liberty, Missouri
Ferg Cunninghame
601 Dixie
Liberty, Missouri

HIGH SCHOOLS

Barstow
- Lue Gillilan (Teacher)
- Kim Trethervey

Belton
- Clifford D. White

Bishop Miege
- Drew Markey

Hickman Mills
- Harry L. Gregory (Teacher)

Loretto
- Jo Ellen Fisherkeller
- Kathy Maloney

Northeast Senior High School
- Duane B. Kelly (Teacher)

North Kansas City
- Tim Armintrout

Oak Park
- Jane Allen
- Rick Baehr
- Ted Gault, Jr.
- Alan Stanley
- Sharon Lee Tucker

Old Mission
- Scott Brandon
- Marlane Cook
- John Fennelly
- Kathleen Lybarger
- Jim Melvin
- Ann Nepstad
- Carol Rittenhouse
- Tom Roberts
- Tim Todd

Shawnee Mission East
- Cathy Hendricks

Shawnee Mission South
- Cris Cox
- Rod Davis
- Deborah Hires
- Steve Lofquist
- Andrew McInykouych
- Dorrell Morgan
- Denise Moser

Shawnee Mission West
- Cindy Fisk
- Michele Goldwasser
- Martha Haynes
- Graig Heator
- Paul Kennedy
- Callie Wilson

Southeast Senior High School
- Marian Goodding

Southwest High School
- John Livingston

MISCELLANEOUS

Paul Andrew (Pump Mfg. Representative)
Frank A. Bartonek (Farmland Industries)
Champ Bennett (Architect)
Ronald Bodinson
Sherman D. Brady (Chemagro Corp.)
Charles M. Bregg (Calvin Products, Inc.)
Larry J. Cole (City of Kansas City, Civil Engineering)
Mrs. Tom Dahl
Pat Crouch (Association for Environmental Improvement)
Daniel G. Dougherty (Lakeside Nature Center)
George Foehringer (Chemagro Corp.)
Ted H. Forester (Mo. Water Pollution Board)
Everett H. Fuchs (Mo. Conservation Dept.)
William M. Gage (Topeka)
J. H. Gillie (Phillips Petroleum)
James C. Hall
Mrs. Bob Hegg
Elbert L. Hughes (Downtown Hosipital)
Joe Mandacina (Calvin Products, Inc.)
Mrs. Dorothy Moore (Johnson County Herald)
Helen A. Morris (Member of American Association of University Women)
Eugene J. Mroz
Jim Odendahl (Missouri Water Pollution Board)
M. E. Pomeroy (Wildlife Society)
Claude Relf (Federation of Missouri)
Neal Rooch (Calvin Products, Inc.)
Lawrence Schaefer (Community Now Newspaper)
Percy J. Smerek (Atoncreat Lutheran Church)
W. J. Sollner (Calvin Products, Inc.)
Randy Sterk (Air Pollution Control Board)
Mrs. Mildred Sutherland
C. Y. Thomas (Kansas Senate)
David H. Todd (Southridge)
H. Raymond Tool (Hach Chemical Company)
Don R. Windsor (Kansas City Power and Light)
Mrs. Connie VanBuskirk (Housewife)
Dwayne Winters (Association for Environmental Improvement)
Lawrence Winter (Calvin Products, Inc.)
J. R. Whitley (Missouri Conservation Dept.)
John Forester (Legal Aid Society)
Camille Ellett (Lakeside Nature Center)
Jim Tucker (Farmland Industries)
Mrs. James Whitley
Wayne A. Colosnow
Ronald Heksch (Legal Aid Society)
Richard E. Brazee (K.C., Mo. Health Dept.)
Walter H. Franke (Air Pollution Control, K.C., Mo.)
D. E. Allison (Armco Steel Corp.)
Richard S. Michael
John A. (Jack) Noord (Director, Air Pollution Control, K.C., Ks.)
Merle W. Zirkel (Planned Parenthood)
Marvin F. Wallace (Kansas City, Kansas Health Dept.)
Wm. E. Mann (K.C., Ks. Health Dept. - Air Pollution Control)
Ray Gerilinger (K.C., Ks. Air Pollution Control)
Jack K. Smith (Missouri Water Pollution Board)
Peggy J. Keilholz (Missouri Water Pollution Board)
Jim Masters (Office of Equal Employment Opportunity)
William Carner (Midwest Research Institute)

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4. Gary Rowland
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Arkansas Polytechnic College

5. David Zoellner
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Bryan, Texas 77801
Texas A. and M. University

Note: School affiliation indicated below address

Summary of the Student Proposals from the South Central Regional Meeting

1. Expression of the idea of being interested in water pollution control as one of the problems, but are more interested in the total environment.

2. Establishment of student organizations to deal with the total environmental pollution problem.

3. One governmental agency should deal exclusively with the total environment.

4. More authority should be given FWPCA to act in cases of intrastate pollution.

5. FWPCA should initiate enforcement actions under provisions of the interstate commerce laws.

6. Student SCOPE Chapters should be established at each university.

7. FWPCA should establish and publish a periodical news bulletin for SCOPES.

Registration lists were not available for the South Central Region.

This is a temporary committee. SCOPE members are not yet elected.

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(Northwest Region)

1. Dennis Becker
3642 S.E. Woodward
Portland, Oregon 97202
Benson High School

2. Gary Minton
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3. Melody Calson
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13. Michael Mitchell
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Wilson High School

Note: School affiliation indicated below address

Views and Proposals by Students at Northwest Meeting

The general views of the students were described in a memorandum from Roy F. Bessey, who formerly served as a consultant to FWPCA in the Northwest Regional Office. During the December 30 meeting, points emphasized in student comments were written on a blackboard. These specific points are summarized as follows:

1. Total approach to environmental controls is essential. Consideration of water pollution alone is not enough.

2. Fundamental to any consideration of the environment is the control of population. Repeatedly FWPCA was challenged to take a stand on population control.

3. Ecological considerations in the broadest sense, as well as specifically , must prevail over pure economics.

4. Society must change its value structure and there must be effective follow up in the assignment of priorities to conform to environmental needs if society is to survive.

5. The "power structure" must be confronted. Government, industry, and the like must be dealt with directly and forcefully.

6. Education, broadly considered, on environmental problems must effectively reach the common man who must recognize the importance of environmental considerations and support effective measures by all concerned.

The following points were made by the students with regard to what SCOPE and FWPCA working with SCOPE should do:

1. Educational and information support should be given to SCOPE and to on-campus student organizations concerned about the environment.

2. SCOPE should function to bring about education of the general public with regard to the environment.

3. SCOPE should encourage and assist formation of and programs of on-campus student organizations.

4. FWPCA should provide student training programs specifically aimed at their concerns, interests, and views.

Registration lists were not available for the Northwest Region.

The schools represented are listed.

	High Schools Represented	Number Present
1.	Beaverton	3
2.	Benson	4
3.	Albany Union (Albany, Ore)	3
4.	Banks (Forest Grove, Ore)	4
5.	Battleground (Wash)	1
6.	Centenial	1
7.	Cedar Park Jr. Hi.	1
8.	Churchill High (Eugene, Ore.)	3
9.	Cleveland (Portland)	2
10.	Cleveland (Seattle, Wash.)	1
11.	Columbia (Richland, Wash.)	3
12.	Columbia River (Vancouver, Wash.)	10
13.	Coquille	1
14.	Corvallis	9
15.	David Douglas	1
16.	Grant	3
17.	Franklin	1
18.	Jackson	4
19.	Fowler Jr. Hi.	1
20.	Kelso Hi (Longview, Wash.)	1
21.	Lake Oswego	3
22.	Lake Oswego Jr. Hi.	4
23.	Lebanon Union High	6
24.	Lincoln	12
25.	Lynch Terrace	1
26.	R.A. Long (Longview, Wash.)	2
27.	Marshall	9
28.	Madison	1

High Schools Represented	Number Present
29. McNary (Salem, Ore.)	1
30. Mercer Island (Mercer Island, Wash.)	1
31. Moses Lake (Moses Lake, Wash.)	5
32. North Catholic (Portland)	3
33. Ockley	1
34. Roosevelt	1
35. Sam Barlow (Troutdale, Ore)	2
36. St. Mary's (Portland)	2
37. St. Andrew's	1
38. Scappoose High (Scappoose, Ore)	1
39. Scaradale (N.Y.)	1
40. Sunset (Beaverton)	5
41. South Eugene	1
42. Tigard	6
43. Wayland Academy (Wis)	1
44. Washington (Portland)	1
45. Wilson	16
46. Jefferson	1

ATTENDANCE -- SCOPE 12/30/69

	Colleges and/or Universities Rep.	Number Present
1.	Central Washington State College	5
2.	Clark College (Vancouver, Wash.)	2
3.	Clackamas Community College	6
4.	Claremont Graduate School	1
5.	Edmonds Community College (Edmonds, Wash.)	5
6.	Everett Community College	1
7.	Gonzaga University	2
8.	Lane Community College	1
9.	Lewis & Clark College	2
10.	Linfield College	3
11.	Linn-Benton Community College	5
12.	Mt. Hood Community College	6
13.	Marylhurst College	3
14.	Oregon College Education	1
15.	Oberlin College	1
16.	Oregon State University	31
17.	Oregon Technical Institute	6
18.	Ponoma College	2
19.	Portland Community College	2
20.	Portland State University	36
21.	Pitzer College (Claremont, Calif)	1
22.	Reed College	5
23.	St. Martin's College	1
24.	Southern Oregon College	5
25.	University of Alaska	1
26.	Antioch	1
27.	University of California (Berkeley)	1